

ETHYLENE TRIMERIZATION CATALYST AND METHOD FOR TRIMERIZING ETHYLENE THEREWITH

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Abstract of JP10036432

PROBLEM TO BE SOLVED: To obtain an ethylene trimerization catalyst which can give 1-hexene useful as a comonomer for a linear low-density polyethylene at good efficiency by combining a specified chromium-containing solid substance with a specified imide compound and a specified alkylmetal compound.

SOLUTION: This catalyst comprises a chromium-containing solid substance (A) which is obtained by impregnating an inorganic oxide with a chromium compound and calcining the product and in which the chromium compound is in the form of an oxide, an imide compound (B) and an alkyl-metal compound (C). In the formula, d is 1-4; M is H or an (un)substituted metallic element of group IA, IIA, IB, IIB, IIIB or IVB in the periodic table; R<1> and R<2> are each H, a 1-10C alkyl, a halogen or an aryl or they may be combined with each other through a C-C bond to form a cyclic substituent.

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